

Amendments to the Specification:

Please amend the Abstract as follows:

ABSTRACT

A method and ~~[[a]]~~ device used in wireless mobile communication for multi-selection signal detection. ~~is disclosed in the present invention. In the said method, In order to minimize the influence of frequency shift and phase rotation that reduces signal detection performance, the length L~~ total number of samples used for the signal detection may be divided into N_{multicoh} an equal number of segments, on which ~~[[then]]~~ the coherent accumulating sum is calculated performed. ~~;~~ and various ~~Various~~ possible combinations will be made according to each coherent result. ~~;~~ then those possible ~~The~~ combinations may then be coherent accumulated again. ~~;~~ finally ~~Finally~~, the optimum ~~[[ones]]~~ results may be selected as the detection results. ~~The said device comprises a matched filter unit; two or more branch units; and a branch selection unit. To accomplish this result, the~~ ~~[[The]]~~ input signal is input to the matched filter unit ~~for carrying out matched and filtering; the , whose output of the matched filter unit will be sent to each branch unit respectively. [[; the]]~~ The phase adjustment and the coherent accumulation of the signal will be performed in each respective branch unit respectively, and then sent to the branch selection unit~~[[;]]~~ where the branch output ~~of selecting with~~ the largest mode is selected as the output is performed by the branch selection unit.

~~———The disadvantages of the detection methods in the prior art are overcome by the method of the present invention. The influence of the frequency shift and the phase rotation that reduces the signal detection performance can be suppressed by the said method in a certain area, and the signal detection performance and the probability are improved.~~